

WVABCA DRAINAGE SWALE SOIL COVER NOTES

- CONTRACTOR SHALL EXCAVATE 18 INCHES OF EXISTING SOIL MATERIAL FROM THE DRAINAGE SWALE WORK AREA. EXCAVATED SOIL SHALL BE TRANSPORTED AND PLACED ON THE WVABCA 3-ACRE WESTERN PARCEL WITHIN THE CONFINES OF THE SOIL-BENTONITE SLURRY WALL. SOIL EXCAVATED FROM THE DRAINAGE SWALE WORK AREA SHALL BE USED TO FILL "LOW AREAS" AT THE LOCATIONS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL TAKE CARE WHEN TRANSPORTING EXCAVATED SOIL FROM DRAINAGE SWALE TO THE AREA INSIDE OF THE SOIL-BENTONITE SLURRY WALL TO MINIMIZE IMPACTS TO THE SLURRY WALL, CLAY CAP AND BRDM.
- UPON EXCAVATION AND REMOVAL OF THE SURFACE SOILS (18-INCH DEPTH), THE CONTRACTOR SHALL COVER THE DRAINAGE SWALE WORK AREA WITH ONE LAYER OF AN 8 OUNCE/SQUARE YARD NONWOVEN GEOTEXTILE. GEOTEXTILE SHALL BE PLACED OVER THE SURFACE PREPARED TO BE AS SMOOTH AS POSSIBLE. GEOTEXTILE SHALL BE LAID AS WRINKLE FREE AS POSSIBLE. INDIVIDUAL PANELS OF GEOTEXTILE SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND SEWN. GEOTEXTILE SHALL BE A NONWOVEN STYLE ENGINEERED FABRIC SUITABLE FOR SEPARATION AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PARAMETER	TEST METHOD	VALUE (MIN)
WEIGHT (TYPICAL)	ASTM D5261	8.0 OZ/YD ²
GRAB TENSILE	ASTM D4632	205 LBS
GRAB ELONGATION	ASTM D4632	50%
AOS	ASTM D4751	80 U.S. SIEVE
TRAPEZOIDAL TEAR	ASTM D4533	85 LBS

- CONTRACTOR SHALL TEMPORARILY ANCHOR THE GEOTEXTILE USING SANDBAGS OR OTHER METHOD TO AVOID DISPLACEMENT OF THE GEOTEXTILE BY WIND, WATER, OR OTHER FORCES.
- CONTRACTOR SHALL SPREAD AN 18-INCH THICK LIFT OF SOIL (SOIL COVER) OVER THE GEOTEXTILE. SOIL SHALL BE UNIFORM, SPREAD, AND PLACED IN SUCH A MANNER TO AVOID DAMAGE TO THE UNDERLYING GEOTEXTILE LAYER. SOIL SHALL BE "CLEAN" SOIL FROM THE CONTRACTOR'S OFF-SITE BORROW AREA. SOIL SHALL BE DETERMINED TO BE "CLEAN" BASED ON ANALYTICAL TESTING WITH THE RESULTS REVIEWED AND APPROVED BY SOLUTIA INC. PRIOR TO USE AT THE SITE. SOIL SHALL MEET THE REQUIREMENTS OF SECTION 1400 BORROW SOIL AS CONTAINED IN TECHNICAL SPECIFICATIONS NITRO, WEST VIRGINIA RCRA INTERIM MEASURES, SOIL-BENTONITE SLURRY WALL INSTALLATION DATED FEBRUARY 11, 2011.
- THE SURFACE OF THE 18-INCH THICK SOIL LAYER SHALL BE REVEGETATED IN ACCORDANCE WITH SECTION 1300 - SEEDING AND MULCHING AS CONTAINED IN TECHNICAL SPECIFICATIONS NITRO, WEST VIRGINIA RCRA INTERIM MEASURES, SOIL-BENTONITE SLURRY WALL INSTALLATION DATED FEBRUARY 11, 2011.
- THE CONTRACTOR SHALL PLACE EROSION CONTROL MATTING (ECM) IN THE DRAINAGE SWALE ALONG THE FLOWPATH OF SURFACE RUNOFF. THE DRAWING SHOWS THE ANTICIPATED ALIGNMENT AND A TYPICAL SECTION OF THE SWALE AND ECM LIVING ECM SHALL BE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS INCLUDING STAPLES AND ANCHOR TRENCHES. EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN P900 OR ENGINEER APPROVED EQUIVALENT.

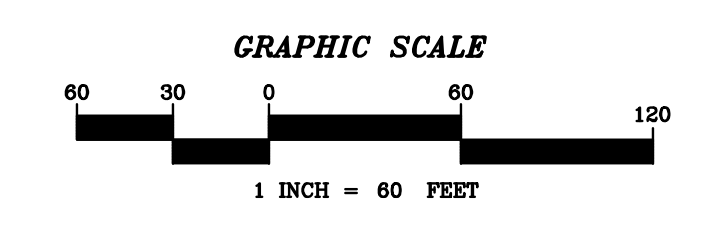
MATCHLINE
SEE DRAWING NO.5

NOTES FOR FINAL PLAN

- THIS DRAWING SHOWS THE PROPOSED FINAL SURFACE OF THE SOLUTIA NITRO PROPERTY, AFTER INSTALLATION OF THE INTERIM MEASURES FINAL CAPS AND COVERS INCLUDING THE 18-INCH VEGETATIVE SOIL COVER LAYER FROM THE OFF-SITE BORROW SOURCE. THE FINAL SURFACE AS SHOWN IS 18 INCHES ABOVE THE GRADES SHOWN ON THE GENERAL FILL SURFACE AND SITE PLAN. THE FINAL SURFACES OF THE CAPS AND COVERS SHALL BE LIMED, FERTILIZED, SEEDED, AND MULCHED.
- SEDIMENT BASINS (OUTLET 001 AND OUTLET 003 SEDIMENT BASINS) SHALL REMAIN IN PLACE UNTIL VEGETATED SURFACES ARE STABILIZED. UPON ADEQUATE VEGETATION TO ACHIEVE A STABILIZED SURFACE, SEDIMENTS SHALL BE REMOVED FROM THE SEDIMENTLINE LINERS IN EACH SEDIMENT BASIN. SEDIMENTS SHALL BE CONSOLIDATED AND PLACED WITHIN EACH SEDIMENT BASIN AND COVERED WITH A GEOTEXTILE AND CLEAN SOIL LAYER TO ACHIEVE A "CLEAN" SURFACE.
- CRUSHED AGGREGATE-SURFACED ACCESS ROADS WILL BE CONSTRUCTED ACROSS THE CAPS AND COVERS TO PROVIDE ACCESS TO GROUNDWATER MONITORING WELLS AND OTHER LOCATIONS WHERE ACCESS MAY BE REQUIRED. ROADS WILL CONSIST OF GEOTEXTILE AND CRUSHED STONE. ROAD LOCATIONS WILL BE FINALIZED ONCE THE MONITORING PLAN IS DEVELOPED.

LEGEND

- PROPOSED DROP INLET
- PROPOSED STORM DRAIN LINE (ODP)
- PROPOSED LIMIT OF PERMANENT PERMEABLE COVER
- PROPOSED LIMIT OF LOW PERMEABILITY COVER
- PROPOSED LIMIT OF LOW PERMEABILITY CAP
- PROPOSED CAP SYSTEM UNDERDRAIN
- PROPOSED FINAL SURFACE GRADE
- EXISTING FENCE
- EXISTING GAS PIPELINE
- EXISTING GROUNDWATER MONITORING WELL
- PROPOSED RIVERBANK ARMORING RIPRAP



MAPPING REFERENCE:
BASE MAPING SHOWN ON THIS DRAWING WAS PREPARED BY PHOTOSCIENCE, INC. BASED ON AERIAL PHOTOGRAPHY DATED SEPTEMBER 24, 2003.

PRELIMINARY - FOR REGULATORY REVIEW

Revision

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R59

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Approved

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Client

FINAL CAP AND COVER SURFACE PLAN

RCRA INTERIM MEASURES

CAPS AND COVERS CONTRACT

Drawing No.

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